# RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: _10/764,957_

Source: _1 FWO_

Date Processed by STIC: _10/18/04_

# *ENTERED*

IFWO

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 3 <110> APPLICANT: Sirna Therapeutics, Inc.
 4        McSwiggen, James
 5        Pavco, Pamela
 6        Beigelman, Leo
 8 <120> TITLE OF INVENTION: RNA Interference Mediated Inhibition of Vascular Endothelial
 9        Growth Factor and Vascular Endothelial Growth Factor Receptor
10        Gene Expression Using Short Interfering Nucleic Acid (siNA)
12 <130> FILE REFERENCE: 400/144 (MBHB02-742-O)
14 <140> CURRENT APPLICATION NUMBER: US 10/764,957
15 <141> CURRENT FILING DATE: 2004-01-26
17 <150> PRIOR APPLICATION NUMBER: US 10/670,011
18 <151> PRIOR FILING DATE: 2003-09-23
20 <150> PRIOR APPLICATION NUMBER: US 10/665,255
21 <151> PRIOR FILING DATE: 2003-09-16
23 <150> PRIOR APPLICATION NUMBER: PCT/US03/05022
24 <151> PRIOR FILING DATE: 2003-02-20
26 <150> PRIOR APPLICATION NUMBER: US60/358,580
27 <151> PRIOR FILING DATE: 2002-02-20
29 <150> PRIOR APPLICATION NUMBER: US60/363,124
30 <151> PRIOR FILING DATE: 2002-03-11
32 <150> PRIOR APPLICATION NUMBER: US60/386,782
33 <151> PRIOR FILING DATE: 2002-06-06
35 <150> PRIOR APPLICATION NUMBER: US60/393,796
36 <151> PRIOR FILING DATE: 2002-07-03
38 <150> PRIOR APPLICATION NUMBER: US60/399,348
39 <151> PRIOR FILING DATE: 2002-07-29
41 <150> PRIOR APPLICATION NUMBER: US60/406,784
42 <151> PRIOR FILING DATE: 2002-08-29
44 <150> PRIOR APPLICATION NUMBER: US60/408,378
45 <151> PRIOR FILING DATE: 2002-09-05
47 <150> PRIOR APPLICATION NUMBER: US60/409,293
48 <151> PRIOR FILING DATE: 2002-09-09
50 <150> PRIOR APPLICATION NUMBER: US60/440,129
51 <151> PRIOR FILING DATE: 2003-01-15
53 <150> PRIOR APPLICATION NUMBER: US10/306,747
54 <151> PRIOR FILING DATE: 2002-11-27
56 <150> PRIOR APPLICATION NUMBER: US60/344,461
57 <151> PRIOR FILING DATE: 2001-11-30
59 <150> PRIOR APPLICATION NUMBER: US10/287,949
60 <151> PRIOR FILING DATE: 2002-11-04
62 <150> PRIOR APPLICATION NUMBER: PCT/US02/17674
63 <151> PRIOR FILING DATE: 2002-05-29
65 <160> NUMBER OF SEQ ID NOS: 473
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RAW SEQUENCE LISTING                    DATE: 10/18/2004
PATENT APPLICATION:  US/10/764,957      TIME: 13:57:31

        Input Set : A:\02-742-O_400.144 SeqList.txt
        Output Set: N:\CRF4\10182004\J764957.raw


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     71 <212> TYPE: RNA
     72 <213> ORGANISM: Artificial Sequence
     74 <220> FEATURE:
     75 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
     77 <400> SEQUENCE: 1
     78 gcggaggcuu ggggcagcc                                        19
     81 <210> SEQ ID NO: 2
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     83 <212> TYPE: RNA
     84 <213> ORGANISM: Artificial Sequence
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sense region
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     90 cggguagcuc ggaggucgu                                        19
     93 <210> SEQ ID NO: 3
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     95 <212> TYPE: RNA
     96 <213> ORGANISM: Artificial Sequence
     98 <220> FEATURE:
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sense region
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    102 uggcgcuggg ggcuagcac                                        19
    105 <210> SEQ ID NO: 4
    106 <211> LENGTH: 19
    107 <212> TYPE: RNA
    108 <213> ORGANISM: Artificial Sequence
    110 <220> FEATURE:
    111 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
    113 <400> SEQUENCE: 4
    114 ccagcgcucu gucgggagg                                        19
    117 <210> SEQ ID NO: 5
    118 <211> LENGTH: 19
    119 <212> TYPE: RNA
    120 <213> ORGANISM: Artificial Sequence
    122 <220> FEATURE:
    123 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
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    126 gcgcagcggu uagguggac                                        19
    129 <210> SEQ ID NO: 6
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    131 <212> TYPE: RNA
    132 <213> ORGANISM: Artificial Sequence
    134 <220> FEATURE:
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sense region

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137 <400> SEQUENCE: 6
138 ccggucagcg gacucaccg                                    19
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RAW SEQUENCE LISTING                        DATE: 10/18/2004
PATENT APPLICATION:   US/10/764,957        TIME: 13:57:31

Input Set : A:\02-742-O_400.144 SeqList.txt
Output Set: N:\CRF4\10182004\J764957.raw


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    147 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
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    150 ggccagggcg cucggugcu                                          19
    153 <210> SEQ ID NO: 8
    154 <211> LENGTH: 19
    155 <212> TYPE: RNA
    156 <213> ORGANISM: Artificial Sequence
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    159 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
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    162 uggaauuuga uauucauug                                          19
    165 <210> SEQ ID NO: 9
    166 <211> LENGTH: 19
    167 <212> TYPE: RNA
    168 <213> ORGANISM: Artificial Sequence
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sense region
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    179 <212> TYPE: RNA
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sense region
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    198 uuuuuuuuua aaacuguau                                          19
    201 <210> SEQ ID NO: 12
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    203 <212> TYPE: RNA
    204 <213> ORGANISM: Artificial Sequence
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sense region
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210 uuguuucucg uuuuaauuu                                                      19
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RAW SEQUENCE LISTING                    DATE: 10/18/2004
PATENT APPLICATION: US/10/764,957       TIME: 13:57:31

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        Output Set: N:\CRF4\10182004\J764957.raw


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    215 <212> TYPE: RNA
    216 <213> ORGANISM: Artificial Sequence
    218 <220> FEATURE:
    219 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
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    225 <210> SEQ ID NO: 14
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    227 <212> TYPE: RNA
    228 <213> ORGANISM: Artificial Sequence
    230 <220> FEATURE:
    231 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
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    234 cccacuugaa ucgggccga                                          19
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    239 <212> TYPE: RNA
    240 <213> ORGANISM: Artificial Sequence
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    243 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
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    246 acggcuuggg gagauugcu                                          19
    249 <210> SEQ ID NO: 16
    250 <211> LENGTH: 19
    251 <212> TYPE: RNA
    252 <213> ORGANISM: Artificial Sequence
    254 <220> FEATURE:
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sense region
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    258 ucuacuuccc caaaucacu                                          19
    261 <210> SEQ ID NO: 17
    262 <211> LENGTH: 19
    263 <212> TYPE: RNA
    264 <213> ORGANISM: Artificial Sequence
    266 <220> FEATURE:
    267 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
    269 <400> SEQUENCE: 17
    270 uguggauuuu ggaaaccag                                          19
    273 <210> SEQ ID NO: 18
    274 <211> LENGTH: 19
    275 <212> TYPE: RNA
    276 <213> ORGANISM: Artificial Sequence
    278 <220> FEATURE:
    279 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
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    282 gcagaaagag gaaagaggu                                          19

285 <210> SEQ ID NO: 19
286 <211> LENGTH: 19

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     290 <220> FEATURE:
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sense region
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     294 uagcaagagc uccagagag                                            19
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     299 <212> TYPE: RNA
     300 <213> ORGANISM: Artificial Sequence
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sense region
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     311 <212> TYPE: RNA
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     314 <220> FEATURE:
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sense region
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     322 <211> LENGTH: 19
     323 <212> TYPE: RNA
     324 <213> ORGANISM: Artificial Sequence
     326 <220> FEATURE:
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sense region
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sense region
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     347 <212> TYPE: RNA
     348 <213> ORGANISM: Artificial Sequence
     350 <220> FEATURE:
     351 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
     353 <400> SEQUENCE: 24
     354 agugagugac cugcuuuug                                            19
     357 <210> SEQ ID NO: 25
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358 <211> LENGTH: 19
359 <212> TYPE: RNA
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RAW SEQUENCE LISTING ERROR SUMMARY     DATE: 10/18/2004
PATENT APPLICATION:  US/10/764,957     TIME: 13:57:32

Input Set : A:\02-742-O_400.144 SeqList.txt
Output Set: N:\CRF4\10182004\J764957.raw

**Please Note:**
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

```
Seq#:233; N Pos. 20,21
Seq#:234; N Pos. 20,21
Seq#:235; N Pos. 20,21
Seq#:236; N Pos. 20,21
Seq#:237; N Pos. 20,21
Seq#:238; N Pos. 20,21
Seq#:239; N Pos. 20,21
Seq#:240; N Pos. 20,21
Seq#:241; N Pos. 20,21
Seq#:242; N Pos. 20,21
Seq#:243; N Pos. 20,21
Seq#:244; N Pos. 20,21
Seq#:245; N Pos. 20,21
Seq#:246; N Pos. 20,21
Seq#:247; N Pos. 20,21
Seq#:248; N Pos. 20,21
Seq#:249; N Pos. 20,21
Seq#:250; N Pos. 20,21
Seq#:251; N Pos. 20,21
Seq#:252; N Pos. 20,21
Seq#:253; N Pos. 20,21
Seq#:254; N Pos. 20,21
Seq#:255; N Pos. 20,21
Seq#:256; N Pos. 20,21
Seq#:257; N Pos. 20,21
Seq#:258; N Pos. 20,21
Seq#:259; N Pos. 20,21
Seq#:260; N Pos. 20,21
Seq#:261; N Pos. 20,21
Seq#:262; N Pos. 20,21
Seq#:263; N Pos. 20,21
Seq#:264; N Pos. 20,21
Seq#:265; N Pos. 20,21
Seq#:266; N Pos. 20,21
Seq#:267; N Pos. 20,21
Seq#:268; N Pos. 20,21
Seq#:269; N Pos. 20,21
Seq#:270; N Pos. 20,21
Seq#:271; N Pos. 20,21
Seq#:272; N Pos. 20,21
Seq#:273; N Pos. 20,21
Seq#:274; N Pos. 20,21
Seq#:275; N Pos. 20,21
Seq#:276; N Pos. 20,21
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RAW SEQUENCE LISTING ERROR SUMMARY          DATE: 10/18/2004
PATENT APPLICATION:  US/10/764,957          TIME: 13:57:32

Input Set : A:\02-742-O_400.144 SeqList.txt
Output Set: N:\CRF4\10182004\J764957.raw

```
Seq#:277; N Pos. 20,21
Seq#:278; N Pos. 20,21
Seq#:279; N Pos. 20,21
Seq#:280; N Pos. 20,21
Seq#:281; N Pos. 20,21
Seq#:282; N Pos. 20,21
Seq#:283; N Pos. 20,21
```

## Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes spaces.

```
Seq#:385; Line(s) 7925
Seq#:386; Line(s) 7937
Seq#:387; Line(s) 7949
Seq#:388; Line(s) 7961
Seq#:389; Line(s) 7973
Seq#:390; Line(s) 7985
Seq#:391; Line(s) 7997
Seq#:392; Line(s) 8009
Seq#:393; Line(s) 8021
Seq#:394; Line(s) 8033
Seq#:395; Line(s) 8045
Seq#:396; Line(s) 8057
Seq#:397; Line(s) 8069
Seq#:398; Line(s) 8081
Seq#:399; Line(s) 8093
Seq#:400; Line(s) 8105
Seq#:401; Line(s) 8117
Seq#:402; Line(s) 8129
Seq#:403; Line(s) 8141
Seq#:404; Line(s) 8153
Seq#:405; Line(s) 8165
Seq#:406; Line(s) 8177
Seq#:407; Line(s) 8189
Seq#:408; Line(s) 8201
Seq#:409; Line(s) 8213
Seq#:458; Line(s) 10292
Seq#:459; Line(s) 10320
Seq#:460; Line(s) 10353
Seq#:461; Line(s) 10385
Seq#:462; Line(s) 10417
Seq#:463; Line(s) 10450
Seq#:464; Line(s) 10484
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```
L:2868 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:233 after pos.:0
L:2886 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:234 after pos.:0
L:2904 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:235 after pos.:0
L:2922 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:236 after pos.:0
L:2940 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:237 after pos.:0
L:2958 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:238 after pos.:0
L:2976 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:239 after pos.:0
L:2994 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:240 after pos.:0
L:3032 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:241 after pos.:0
L:3080 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:242 after pos.:0
L:3128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:243 after pos.:0
L:3186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:244 after pos.:0
L:3219 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:245 after pos.:0
L:3262 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:246 after pos.:0
L:3310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:247 after pos.:0
L:3363 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:248 after pos.:0
L:3411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:249 after pos.:0
L:3479 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:250 after pos.:0
L:3552 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:251 after pos.:0
L:3640 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:252 after pos.:0
L:3683 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:253 after pos.:0
L:3746 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:254 after pos.:0
L:3814 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:255 after pos.:0
L:3892 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:256 after pos.:0
L:3935 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:257 after pos.:0
L:3998 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:258 after pos.:0
L:4066 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:259 after pos.:0
L:4149 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:260 after pos.:0
L:4192 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:261 after pos.:0
L:4255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:262 after pos.:0
L:4323 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:263 after pos.:0
L:4411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:264 after pos.:0
L:4439 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:265 after pos.:0
L:4467 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:266 after pos.:0
L:4495 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:267 after pos.:0
L:4523 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:268 after pos.:0
L:4546 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:269 after pos.:0
L:4569 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:270 after pos.:0
L:4592 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:271 after pos.:0
L:4615 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:272 after pos.:0
L:4633 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:273 after pos.:0
L:4651 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:274 after pos.:0
L:4669 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:275 after pos.:0
L:4687 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:276 after pos.:0
L:4705 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:277 after pos.:0
L:4723 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:278 after pos.:0
L:4741 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:279 after pos.:0
L:4759 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:280 after pos.:0
```

**VERIFICATION SUMMARY**       DATE: 10/18/2004
PATENT APPLICATION: **US/10/764,957**      TIME: 13:57:32

Input Set : **A:\02-742-O_400.144 SeqList.txt**
Output Set: **N:\CRF4\10182004\J764957.raw**

L:4777 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:281 after pos.:0
L:4795 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:282 after pos.:0